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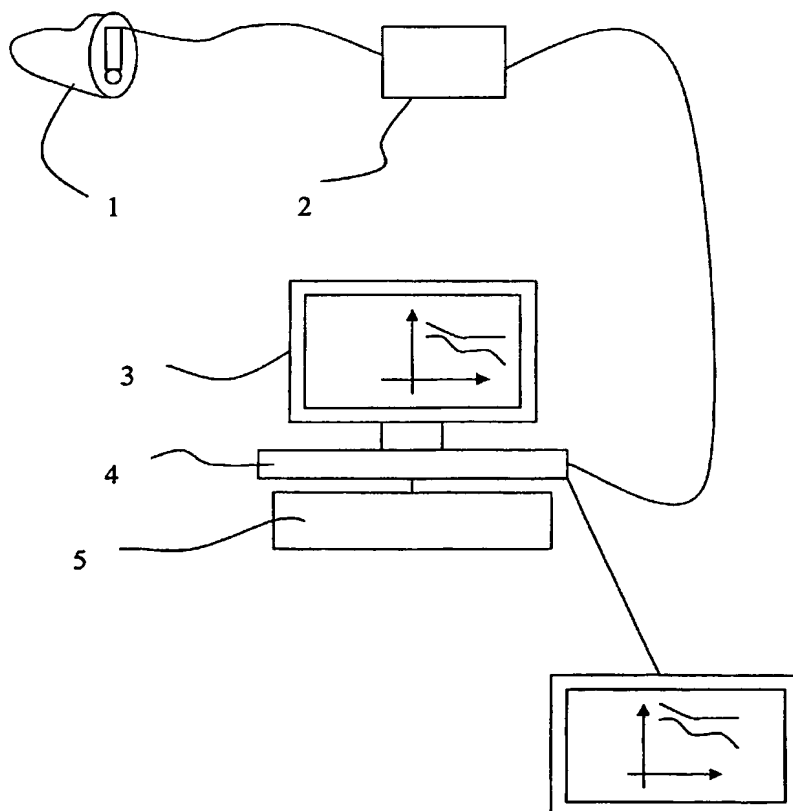
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[Continued on next page]

(54) Title: **METHOD AND DEVICE FOR IMPROVING HEARING AID FITTING**



(57) Abstract: The invention relates to a method for providing improvement to a hearing aid fitting situation by means of providing a higher degree of user involvement in the fitting process, the method comprising simultaneous visualizing for a patient and/or a hearing professional the actual input and the setting of the hearing aid transfer function or the hearing threshold of the individual. The invention further relates to a device for implementing and performing the method.



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MENGBRETSON A M ET AL: "A DIGITAL HEARING AID AND COMPUTER-BASED FITTING PROCEDURE" HEARING INSTRUMENTS, HARCOURT BRACE JOVANOVIH PUBL. DULUTH, MINNESOTA, US, vol. 37, no. 2, February 1986 (1986-02), pages 8,11-12,14, XP000796177 ISSN: 0092-4466 the whole document	1-21
A	DE 100 05 428 A (AUDIO SERVICE GMBH AS) 9 August 2001 (2001-08-09) the whole document ----- -/--	1-21

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 322 521 B1 (HOU ZEZHANG) 27 November 2001 (2001-11-27) column 5, line 49 - column 6, line 51 column 8, line 57 - column 9, line 29; figures 1,7	1-21
A	US 2002/044148 A1 (LUDI CHRISTOPH) 18 April 2002 (2002-04-18) paragraph '0028! - paragraph '0029!	1,6,11, 16

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 10005428	A	09-08-2001	DE 10005428 A1	09-08-2001
US 6322521	B1	27-11-2001	AU 3111901 A	31-07-2001
			CN 1394128 T	29-01-2003
			EP 1250089 A1	23-10-2002
			JP 2003520095 T	02-07-2003
			WO 0152737 A1	26-07-2001
			US 6522988 B1	18-02-2003
US 2002044148	A1	18-04-2002	AU 7611701 A	28-03-2002
			CA 2357683 A1	27-03-2002
			EP 1194005 A2	03-04-2002